We connect and protect

IBSHY Insulated Braided Conductor for Compact Circuit Breakers

Data Solutions

IBSHY is the ideal ready-to-install flexible wire replacement solution that is specifically designed for connections from compact molded case circuit breakers with typical current rating of 125/160 A to copper busbar . The IBSHY connects to the front access terminals of the breakers without any additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBSHY is available in cross section of 32 mm² (63.15 kcmil), lengths from 230 to 830 mm (9.1" to 32.7").

Manufactured in an ISO 9001 2015 certified proprietary automated facility, IBSHY is formed by weaving high-quality electrolytic copper wire to form a durable low voltage connector with maximum flexibility that allows for more compact power connections to circuit breakers. The IBSHY allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBSHY features integral pre-punched palms at one end with a pre-punched crimped tube at the other end both of which are ready to connect out of the box. There are no lugs to purchase or install, making connections simpler and faster and eliminating faulty connections due to vibration or fatigue.

These specific shapes give users the advantage to have the possibility to link a compact circuit breaker, or other apparatus, using connection by cage or bolt to a copper busbar with a larger bolt.

The insulation is a high-resistance, self-extinguishing, and halogen free glass fiber reinforced silicone providing possible high working temperature. IBSHY is compatible with all major brand compact molded case circuit breakers with 125/160 A nominal current. Contact your nVent ERIFLEX representative to determine the correct size for your application.

CERTIFICATIONS

CARACTERISTICAS

- Suitable for all main 125/160 A electrical devices and specifically molded case circuit breakers
- Resistant to vibration, improving reliability and performance
- Improves assembly flexibility and aesthetics
- Quick and easy installation
- No additional cutting, stripping, crimping and punching needed
- Small wire diameter provides maximum flexibility
- Halogen free solution for applications requiring a low smoke solution
- Conforms to NF EN 45545 obtaining an HL3 classification for chapters R22 and R23
- DNV GL® certified for marine and offshore applications
- High working temperature
- RoHS compliant

ESPECIFICAÇÕES

Diâmetro do fio: 0.15mm
Peak Short Circuit Current (Ipk): 15kA
Typical Application Current Rating: 160A
Max Working Voltage, IEC (Ui): 1000; 1500
Material: Copper; Glass Fibre Reinforced Silicone
Em conformidade com: IEC® 60439.1; IEC® 61439.1
Acabamento: Tinned
Flammability Rating: UL® 1441 VW-1
Temperatura de trabalho: –60 to 250°C

Table 1/2

Número de catálogo	Número do artigo	Corte transversal	Length (L)	A	B	C
IBSHY32-230	558584	32mm²	230mm	11mm	25mm	3mm
IBSHY32-330	558586	32mm²	330mm	11mm	25mm	3mm
IBSHY32-365	558587	32mm²	365mm	11mm	25mm	3mm

Número de catálogo	Número do artigo	Corte transversal	Length (L)	A	B	C
IBSHY32-430	558588	32mm²	430mm	11mm	25mm	3mm
IBSHY32-500	558589	32mm²	500mm	11mm	25mm	3mm
IBSHY32-565	558591	32mm²	565mm	11mm	25mm	3mm
IBSHY32-630	558592	32mm²	630mm	11mm	25mm	3mm
IBSHY32-700	558593	32mm²	700mm	11mm	25mm	3mm
IBSHY32-765	558594	32mm²	765mm	11mm	25mm	3mm
IBSHY32-830	558595	32mm²	830mm	11mm	25mm	3mm

Table 2/2

Número de catálogo	Número do artigo	D	Tamanho do orifício 1 (HS1)	Tamanho do orifício 2 (HS2)
IBSHY32-230	558584	5mm	6.5mm	10.5mm
IBSHY32-330	558586	5mm	6.5mm	10.5mm
IBSHY32-365	558587	5mm	6.5mm	10.5mm
IBSHY32-430	558588	5mm	6.5mm	10.5mm
IBSHY32-500	558589	5mm	6.5mm	10.5mm
IBSHY32-565	558591	5mm	6.5mm	10.5mm
IBSHY32-630	558592	5mm	6.5mm	10.5mm
IBSHY32-700	558593	5mm	6.5mm	10.5mm
IBSHY32-765	558594	5mm	6.5mm	10.5mm

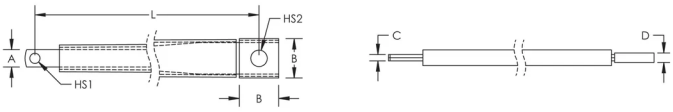
Número de catálogo	Número do artigo	D	Tamanho do orifício 1 (HS1)	Tamanho do orifício 2 (HS2)
IBSHY32-830	558595	5mm	6.5mm	10.5mm

DETALHES ADICIONAIS DO PRODUTO

ΔT = Temperature of conductors – Internal temperature of panel.

This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

DIAGRAMAS



AVISO

Os produtos nVent devem ser instalados e utilizados apenas conforme indicado nas fichas de instrução do produto e materiais de treinamento da nVent. As fichas de instrução estão disponíveis em www.nVent.com e com nossos representantes de atendimento ao cliente nVent. A instalação inadequada, uso incorreto, aplicação incorreta ou outra falha qualquer em seguir completamente as instruções e avisos da nVent podem levar ao mau funcionamento do produto, danos à propriedade, lesões corporais graves e morte, e/ou anular sua garantia.